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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/528,126	03/17/2000	Noriyoshi Satoh	32439	2947

116 7590 01/29/2003

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EXAMINER
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MAUNG, NAY AUNG

ART UNIT	PAPER NUMBER
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2681

DATE MAILED: 01/29/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/528,126

Applicant(s)

SATO ET AL.

Examiner

Nay A. Maung

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 17 March 2000.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All   b) ☐ Some \*   c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)                      4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)                      5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3, 1pg.                      6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Information Disclosure Statement***

1. The information disclosure statement (IDS) submitted on 3/17/2000 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Petratos et al. (Petratos, patent no. 4,680,676).

Consider claim 1. Petratos teaches a radio terminal device (figs. 1, and 2) having:

a printed board having a front surface and a rear surface (fig. 1, item 124; col. 2, lines 45-50, col. 3, lines 45-67);

a resin (plastic, fig. 1, item 140) housing (i.e., protector) covering the rear front surface of the printed board (col. 2, lines 65-68);

a metal housing covering the front surface of the printed board (fig. 1, item 102; col. 2, lines 45-67; col. 3, lines 45-67);

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an antenna disposed on a side of the rear surface of the printed board (fig. 2, items 284, 136, 288; col. 5, lines 16-40);

wherein a part of the printed board is accommodated in the resin housing (fig. 1, items 124 and 140; col. 2, lines 45-67); and

wherein a remaining part of the printed board is accommodated in the metal housing (fig. 1, items 124 and 102; col. 3, lines 45-67).

Consider claim 2. Petratos further teaches the resin housing and the metal housing are joined with each other by a curved line (i.e., depicted in figure 1, items 106c and end corner of item 140 near item 142c, at least formed a curved line) from a view point of the side of the radio terminal device (i.e., when items 102, 124, and 140 are formed together).

Consider claim 3. Petratos further teaches the printed board and the metal housing are connect with each other electrically (fig. 2; col. 6, lines 15-37).

Consider claim 4. Petratos further teaches wherein the antenna is disposed near an end portion in the remaining part of the printed board (fig. 1, item 136, fig. 2 item 136, 184, 288; col. 5, lines 16-40).

### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kubo discloses a portable telephone set;

Shima recites an increased gain loop antenna for a radio selective calling receiver; and


Webster's II discloses "housing 2. something that covers, protects, or supports..."

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nay A. Maung whose telephone number is 703-308-7745. The examiner can normally be reached on 7:30 a.m. - 4:00 p.m., Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne D. Bost can be reached on 703-305-4778. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2600's customer service number is 703-306-0377.

  
**NAY MAUNG**  
**PRIMARY EXAMINER**  
Art Unit 2681

January 25, 2003